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**PCT**NOTIFICATION CONCERNING  
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(PCT Administrative Instructions, Section 411)

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International publication date (day/month/year)	Priority date (day/month/year) 24 December 2003 (24.12.2003)
Applicant SHOWA DENKO K.K. et al	

- By means of this Form, which replaces any previously issued notification concerning submission or transmittal of priority documents, the applicant is hereby notified of the date of receipt by the International Bureau of the priority document(s) relating to all earlier application(s) whose priority is claimed. Unless otherwise indicated by the letters "NR", in the right-hand column or by an asterisk appearing next to a date of receipt, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
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<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
24 December 2003 (24.12.2003)	2003-426408	JP	17 February 2005 (17.02.2005)
30 December 2003 (30.12.2003)	60/532,906	US	20 January 2005 (20.01.2005)

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## INTERNATIONALSEARCHREPORT

International application No.

PCT/JP2004/019796

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.<sup>7</sup> B23K1/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.<sup>7</sup> B23K1/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996  
 Published unexamined utility model applications of Japan 1971-2005  
 Registered utility model specifications of Japan 1996-2005  
 Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-1136 A ( FURUKAWA ELECTRIC CORP. ) 2001.01.09, claim 1-2, column 3, lines 16-28, column 6, lines 7-20, column 7, lines 36-50	1-18
Y	JP 2002-507488 A (SOLVAY FLUOR UND DERIVATE GMBH) 2002.03.12, claim 1-2, page 9, lines 12-27 & US 6432221 B1	1-18
Y	JP 61-293699 A (TOYOTA CENTRAL R&D LABS., INC.) 1986.12.24, claim 1	1-18
Y	JP 1-143794 A (CALSONIC CORP. , TARUCHIN CORP.) 1989.06.06, claim 1	2-3, 9
Y	JP 9-1384 A (NIHON GENMA CORP. , TOYO ALUMINUM	4-5, 9

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&amp;" document member of the same patent family

Date of the actual completion of the international search

02.05.2005

Date of mailing of the international search report

17. 5. 2005

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International application No.

PCT/JP2004/019796

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	CORP. , FURUKAWA ELECTRIC CORP.) 1997.01.07, column 5, lines 10-19	
Y	JP 2001-138038 A (Yuichirou ASANO, Yoshikazu ISHI) 2001.05.22, column 5, lines 6-14	6-9
Y	JP 1-218795 A (MITSUBISHI ALUMINUM CORP.) 1989.08.31, claim 1	13-14
Y	JP 6-55293 A (FURUKAWA ALUMINUM CORP.) 1994.03.01, claim 1	13-14
Y	JP 6-182581 A (MITSUBISHI ALUMINUM CORP.) 1994.07.05, claim 1	13-14